

HEMA RADHIKA

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Experience

Standard Solutions

June 2024 - August 2024

Software Engineer Intern

- Developed Python scripts to automate routine operational tasks, leading to a 25% increase in team productivity. Assisted in AWS Lambda configurations for task automation and debugging.

Projects

MERN Real Estate Web Application | MERN Stack, Appwrite, Firebase

- Developed a feature-rich platform for real estate stakeholders, enabling advanced property search, secure listing management, and role-based access control.
- Integrated frontend and backend using APIs, implemented Redux for state management and secure OAuth-based authentication.
- Built using Node.js, React.js, HTML, Tailwind CSS, JavaScript, and MongoDB to ensure robust performance and scalability.

Memory Management System | C++, Data Structures, Debugging, Team Collaboration

- Implemented custom allocators to optimize memory usage, reducing overhead by 25%.
- Debugged complex memory leaks and resolved critical segmentation faults, improving software stability.
- Collaborated with a team to integrate the module into a larger software system, ensuring seamless performance.

Hotel Reservation System | MySQL, Power BI

- We developed a data-driven hotel reservation management system to analyze booking patterns, forecast demand, improving customer experience, and streamlining hotel operations.
- Designed an interactive Power BI dashboard showcasing metrics and forecasted future booking using time series models.
- Implemented data-driven pricing strategies and personalized promotions, resulting in a 10% revenue increase and 20% satisfaction improvement.

Skills

Languages: Java, Python, C++

Data Handling Tools: MySQL, PostgreSQL, MongoDB, Hadoop, Matplotlib, Seaborn, Power BI

Core CS Concepts: Data Structures, Algorithms, Object-Oriented Design

Web Development: HTML, CSS, JavaScript, React.js, Node.js, Express.js

Cloud Tools: AWS, Docker, Git

Achievements

- HR Reddy, et al. (2024) *Deep Attention Model for Malaria Prediction* Proceedings of the Springer 2024, 3rd International Conference on Computing, IoT and Data Analytics (ICCIDA), Shenyang, Liaoning, China.
- HR Reddy, et al. (2023) *Higher Order Dynamic Mode Decomposition for Robust Parameter Estimation in Power Grids* Proceedings of IEEE 2023, 3rd International Conference on Emerging Frontiers in Electrical and Electronic Technologies (ICEFEET), Patna, India.

Extracurricular Activities

Head of AI Tech Club Lead

[July 2023 – Present]

- Led a team of students in organizing AI ML workshops, hackathons, and coding competitions.
- Conducted sessions on deep learning, reinforcement learning, and data science applications.

Data Analyst Intern, Suvidha MM

[March 2023 – April 2023]

- Analyzed large datasets to extract meaningful insights and create data-driven reports.
- Worked on predictive modeling and data visualization using Python and SQL.

Education

Amrita Vishwa Vidyapeetham

Oct 2021 - May 2025

Bachelor of Technology in Computer Science (Artificial Intelligence)

Coimbatore, Tamil Nadu

Bhashyam Junior College

July 2019 – June 2021

The Board of Intermediate Education, (BIEAP)

Guntur, Andhra Pradesh